



ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748-5089
<http://www.nteinc.com>

NTE542 High Voltage Silicon Rectifier, 500mA

Features:

- Diffused Silicon Junctions
- Glass Passivated Junctions
- Avalanche Characteristics
- Matched Reverse Parameters
- Fast Recovery Series
- Low Reverse Leakage

Maximum Ratings and Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Peak Reverse Voltage, V_{RM}	15kV
Average Forward Current ($T_A = +50^\circ\text{C}$), I_O	500mA
Maximum Forward Voltage Drop at I_C , V_{FM}	17V
Peak Surge Forward Current (1/2 cycle @ 60Hz Non-Repetitive), I_{FSM}	50A
Maximum Reverse Current ($V_R = V_{RM}$), I_R	
$T_A = +25^\circ\text{C}$	0.1 μA
$T_A = +100^\circ\text{C}$,	15 μA
Max Peak Repetitive Forward Current, I_{FRM}	2A
Maximum Reverse Recovery Time, T_{RR}	5 μsec
Operating Temperature Range, T_{OP}	-40° to $+175^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+175^\circ\text{C}$

